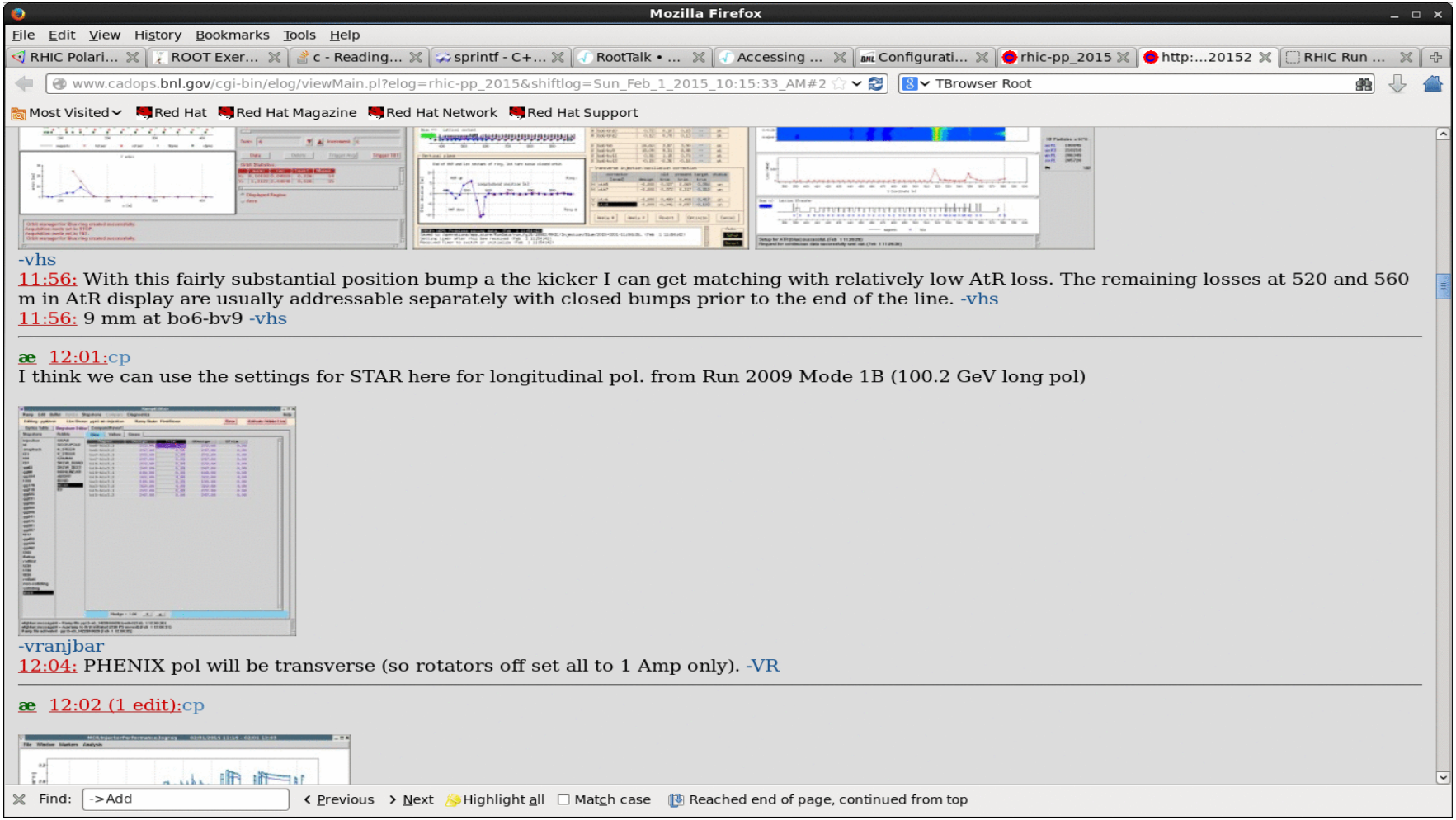
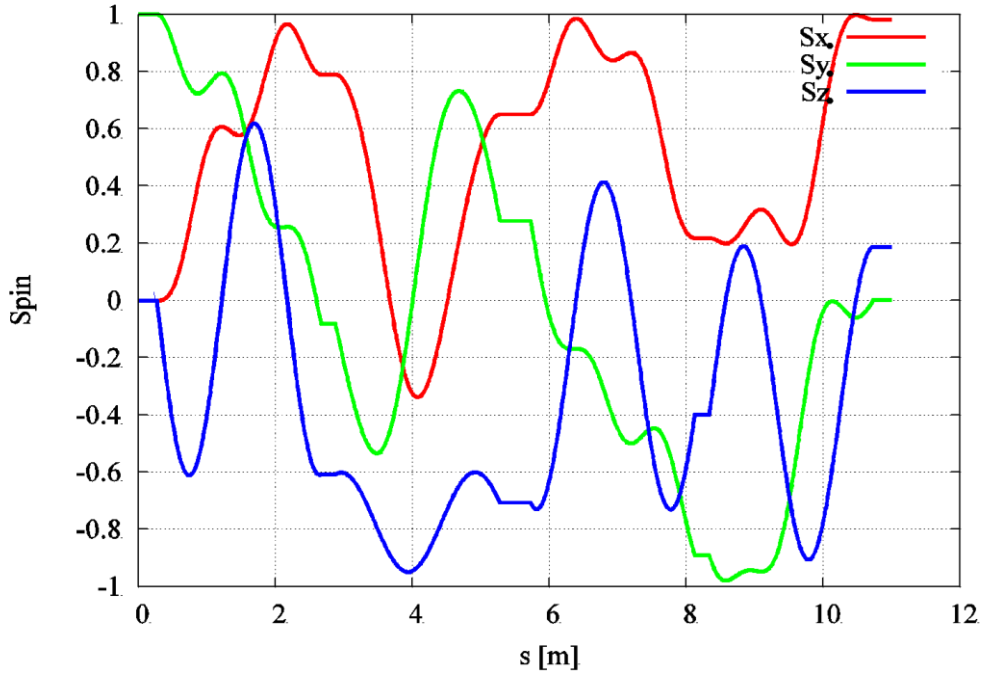
So this is where my screw up began:
I thought I had found 2009 Mode 1B it was really 2009 Mode 1A (250GeV)



If you look just a bit you will see that clearly this was a 250GeV ramp..but I didn't catch it.

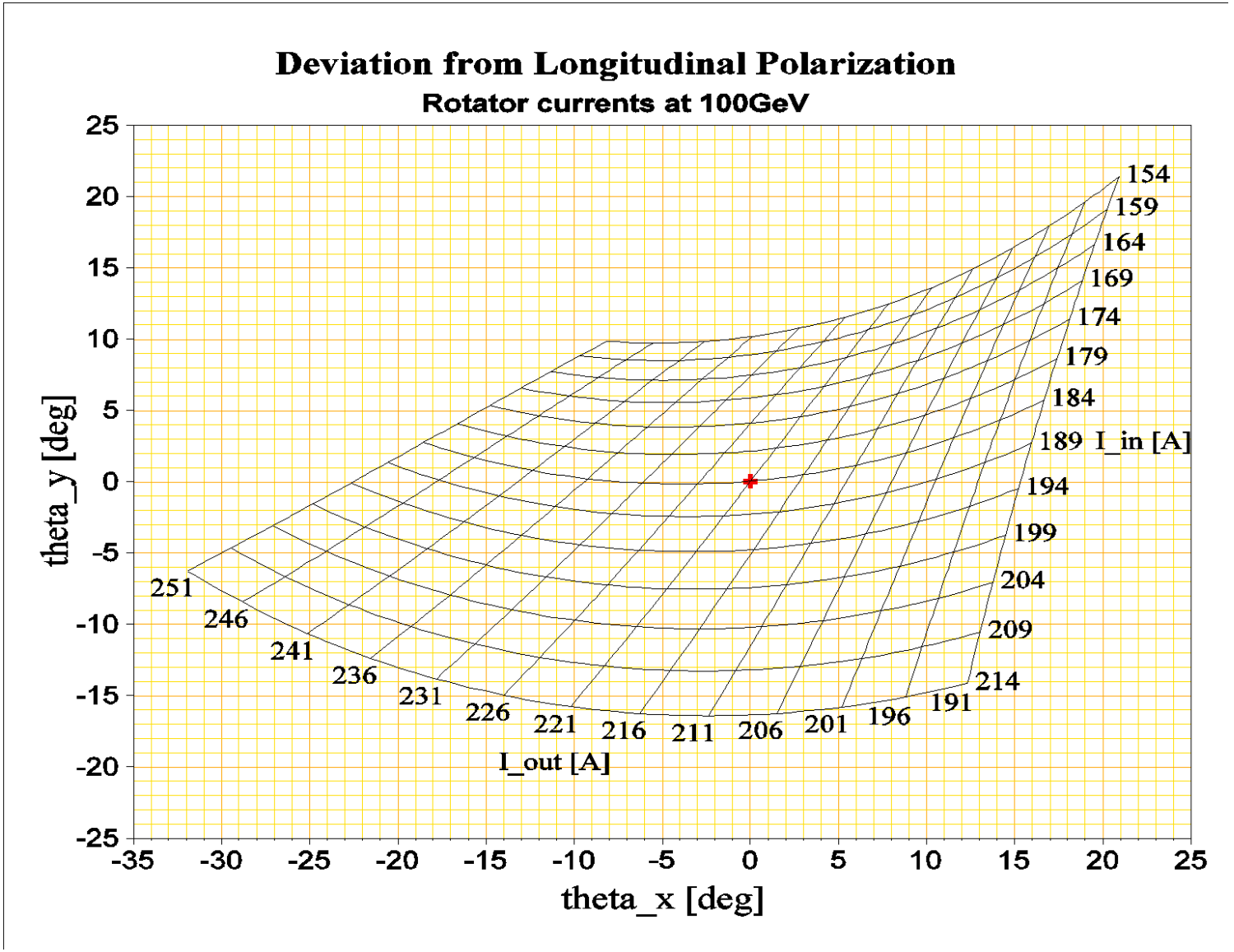
When I cross checked with my simulation I got this result which seemed close enough



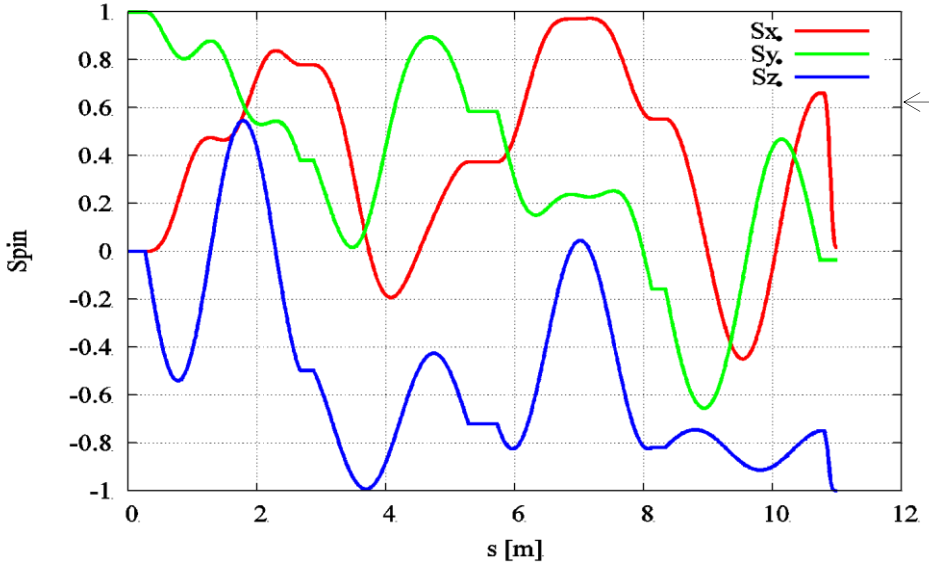
What I thought we had...it was off but I thought mmm good enough.

Then yesterday I spent some time digging through 2006 elogs and noticed that the values Were lower but I thought..well they were still 'commissioning' the rotators. Then in the evening Vincent insight-fully realized if we were not using the dipole field that would account for the 40 degrees. However I was still sure I was using them since I saw them in my code.. ..but I was beginning to have doubts..and began digging more through waldo's old Files and finally found what was looking for:

Just then I got an email from Ernst, he had found the 'real' 2009 settings which I had originally missed and they were about the same as in this plot

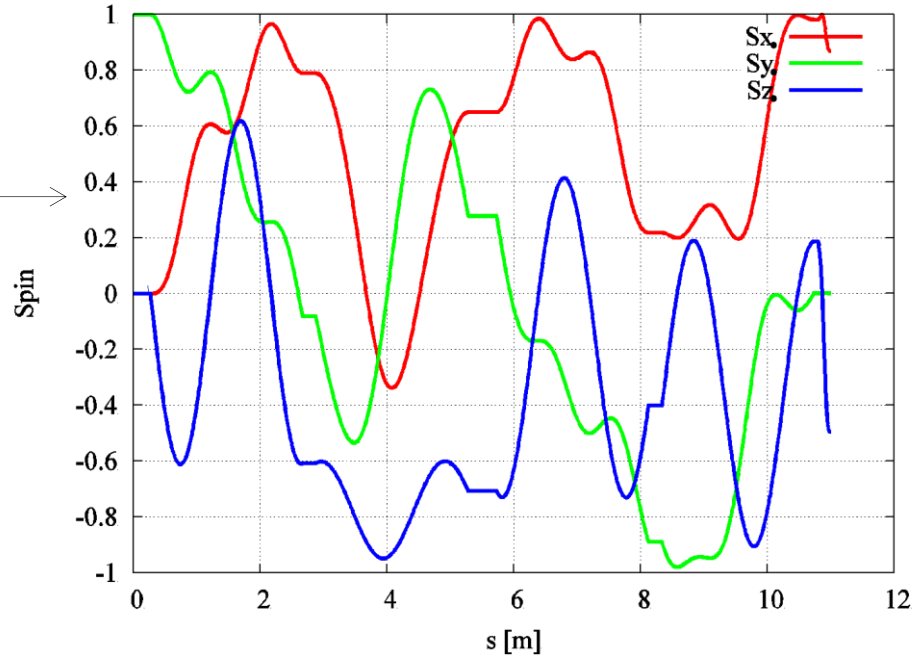


Then I realized that the # meant the dipole fields were commented out.(Vincent was right) So this is what I should have been getting:



Iout= 221, Iin = 189
The 'real' optimal setting by Waldo's Model

What we had before using
Iout=272, Iin=247



Sorry!

- I should have been more careful and dug a little harder.
- Thanks to Ernst and Vincent for helping solve this.